

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2021
Docket Number 2020-xx-E
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factor

1 Costs to be Recovered for Year 2016 True up	Year 2016, Exhibit 1, Line 16	(591,079)
2 Costs to be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16	(1,923,312)
3 Costs to be Recovered for Year 2018 True Up	Year 2018, Exhibit 1, Line 16	2,773,805
4 Costs to be Recovered for Year 2019 True Up	Year 2019, Exhibit 1, Line 16	7,511,193
5 Total Cost to be Recovered Vintages Year 2017, Year 2018 and Year 2019 True-ups	Line 1 through line 3	\$ 7,770,607
6 Projected SC Residential Sales (kWh) for rate period	R12 Exhibit 3, Page 1 Line 3	6,591,986,001
7 Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Line 4 / Line 5 * 100	0.1179
8 Costs to be Recovered for Vintage Year 2018 Prospective Amounts	Year 2018 Exhibit 1 Line 16	2,188,505
9 Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019 Exhibit 1 Line 16	4,134,540
10 Costs to be Recovered for Vintage Year 2020 Prospective Amounts	Year 2020 Exhibit 1 Line 1	1,975,653
11 Costs to be Recovered for Vintage Year 2021 Prospective Amounts	Year 2021, Exhibit 1, pg 1 Line 12	30,451,961
12 Less: Costs to be Recovered through Solar Access Fee	R12 Exhibit 3 page 2	1,185,693
13 Total Prospective Components of Residential Revenue Requirement	Line 7 through Line 10 Less Line 11	\$ 37,564,967
14 Projected SC Residential Sales (kWh) for rate period	R12 Exhibit 3, Page 1 Line 3	6,591,986,001
15 Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Line 12 / Line 13 * 100	0.5699
16 Total Revenue Requirement for Residential Rider EE	Line 5 + Line 13	\$ 45,335,574
17 Total Revenue Requirement for Residential Rider EE (cents per kWh)	Line 6 + Line 14	0.6878

Non-Residential Billing Factors for Rider 12 True-Up Components

18 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2016 Exhibit 1 Line 27	\$ (750,849)
19 Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 8	\$ 4,627,612,637
20 EE Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 17/Line 18 * 100	\$ (0.0162)
21 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2016 Exhibit 1 Line 40	\$ 2,475
22 Projected Vintage Year 2016 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 9	\$ 5,448,234,396
23 DSM Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 20/Line 21 * 100	\$ 0.0000
24 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	\$ (577,285)
25 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 8	4,564,691,454
26 EE Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 17/Line 18 * 100	(0.0126)
27 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	\$ 47,245
28 Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 9	5,448,234,396
29 DSM Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 20/Line 21 * 100	0.0009
30 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 833,761
31 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 10	4,505,782,182
32 EE Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 23/Line 24 * 100	0.0185
33 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	\$ (82,830)
34 Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 11	5,495,148,562
35 DSM Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 26/Line 27 * 100	(0.0015)
36 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1 Line 27	\$ (6,130,853)
37 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 12	4,448,799,169
38 EE Revenue Requirement Vintage Year 2019 True-up Non-Residential Rider EE (cents per kWh)	Line 29/Line 30 * 100	(0.1378)
39 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1 Line 40	\$ 177,401
40 Projected Vintage Year 2019 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 1 Line 13	5,492,477,062
41 DSM Revenue Requirement Vintage Year 2019 True-up Non-Residential Rider EE (cents per kWh)	Line 32/Line 33 * 100	0.0032

Amended Exhibit A, page 2

Non-Residential Billing Factors for Rider 12 Prospective Components

42 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	\$ 2,036,447
43 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 10	4,505,782,182
44 EE Revenue Requirement Vintage Year 2018 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 35/Line 36 * 100	0.0452
45 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	\$ 3,626,400
46 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 12	4,448,799,169
47 EE Revenue Requirement Vintage Year 2019 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 38/Line 39 * 100	0.0815
48 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	\$ 3,314,813
49 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 14	4,404,495,996
50 EE Revenue Requirement Vintage Year 2020 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 41/Line 42 * 100	0.0753
51 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant	Year 2021 Exhibit 1, Pg. 2, Line 7	\$ 20,106,288
52 Projected Vintage Year 2021 EE Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 16	4,404,495,996
53 EE Revenue Requirement Vintage Year 2021 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 44/Line 45 * 100	0.4565
54 Total Vintage Year 2021 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2021 Exhibit 1, Pg. 2, Line 17	\$ 9,105,408
55 Projected Vintage Year 2021 DSM Participants SC Non-Residential Sales (kwh) for rate period	R12 Exhibit 3, Page 2 Line 19	5,492,477,062
56 DSM Revenue Requirement Vintage Year 2021 Program Costs Non-Residential Rider EE (cents per kWh)	Line 47/Line 48 * 100	0.1658
<u>Total costs to be recovered in Rider 12 from Non-Residential Customers</u>		
57 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2016 Exhibit 1	(750,849)
58 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2016 Exhibit 1	2,475
59 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	(577,285)
60 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	47,245
61 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	833,761
62 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1 Line 40	(82,830)
63 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1 Line 27	(6,130,853)
64 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1 Line 40	177,401
65 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1 Line 27	2,036,447
66 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	3,626,400
67 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Pg. 2, Line 7	3,314,813
68 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant	Year 2021 Exhibit 1, Pg. 2, Line 7	20,106,288
69 Total Vintage Year 2021 Prospective DSM Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2021 Exhibit 1, Pg. 2, Line 17	9,105,408
70 Total Non-Residential Revenue Requirements		31,708,422

RIDER EE (SC)
ENERGY EFFICIENCY RIDERAPPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2021, cost recovery under Rider EE consists of the four year term program, years 2015-2018, as well as rates under the continuation of that program for years 2019-2021 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, PL and NL for program years 2017-2021.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2015, using the method approved by the PSCSC set forth in Order No. 2013-889.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be true-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- a. The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. Electric service to the Customer must be provided under:
 1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
 2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2021 Program Year, the enrollment period begins November 1, 2020 and ends December 31, 2020.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2021 through December 31, 2021 including revenue-related taxes and utility assessments are as follows:

Residential

Vintage 2016, 2017, 2018, 2019, 2020, 2021 0.6878¢ per kWh

Total Residential 0.6878¢ per kWh

Nonresidential

	<u>Energy Efficiency</u>	<u>Demand-Side Management</u>
2016 Vintage*	(0.0162)¢ per kWh	0.0000¢ per kWh
2017 Vintage*	(0.0126)¢ per kWh	0.0009¢ per kWh
2018 Vintage*	0.0637¢ per kWh	(0.0015)¢ per kWh
2019 Vintage*	(0.0563)¢ per kWh	0.0032¢ per kWh
2020 Vintage*	0.0753¢ per kWh	0.0000¢ per kWh
2021 Vintage*	0.4565¢ per kWh	0.1658¢ per kWh

Total Vintage
2017, 2018,
2019, 2020 and 2021 0.5104¢ per kWh 0.1684¢ per kWh

Total Nonresidential 0.6788¢ per kWh

* Not Applicable to Rate Schedules OL, PL and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

Amended Year 2016 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2016 - December 31, 2016
Docket No. 2019-89-E
Calculation of Year 2016 True up of Shared Savings, Y1, Y2, Y3 and Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		Rider 7 Year 2016 Estimate	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Rider 10 Year 4 Lost Revenue Estimate	True up to be Collected in Rider 11	True up to be Collected in Rider 12	Year 2016
1	Residential EE Program Cost	\$ 11,482,088		\$ 3,178,895		\$ (0)		\$ -		\$ 14,660,983
2	Residential EE Earned Utility Incentive	675,068		2,019,774		(22,174)		-		2,672,668
3	Total EE Program Cost and Incentive Components	12,157,156		5,198,669		(22,174)		-		17,333,651
4	Residential DSM Program Cost	3,134,039		(116,010)		0		-		3,018,029
5	Residential DSM Earned Utility Incentive	1,152,056		(58,775)		(9,614)		(0)		1,083,667
6	Total DSM Program Cost and Incentive Components	4,286,095		(174,785)		(9,614)		(0)		4,101,696
7	Residential Existing DSM Program Revenue Requirement Estimate	673,781		(86,148)		-				587,633
8	Total EE/DSM Program Cost and Incentive Components	17,117,032		4,937,736		(31,788)		(0)		22,022,980
9	Revenue-related taxes and regulatory fees factor	1.004517		1.004493		1.004487		1.004450		
10	Total EE Program Cost and Incentive Revenue Requirement	17,194,350		4,959,921		(31,931)		(0)		22,122,340
11	Residential Net Lost Revenues	3,954,894	2,211,965	510,764	2,628,500	361,245	1,401,449	10,107	(498,028)	10,580,896
12	Total Residential EE Revenue Requirement	21,149,244	2,211,965	5,470,685	2,628,500	329,315	1,401,449	10,107	(498,028)	32,703,236
13	Estimated Revenues Collected									33,279,554
14	Residential EE Revenue Requirement									\$ (576,317)
15	Estimated interest to be Recovered									(14,762)
16	Estimated Residential EE/DSM Revenue Requirement True Up									\$ (591,079)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Rider 7 Year 2016 Estimate	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Rider 10 Year 4 Lost Revenue Estimate	True up to be Collected in Rider 11	True up to be Collected in Rider 12	Year 2016
17	Non-Residential EE Program Cost	\$ 13,492,828		\$ 4,824,922		\$ (1)		\$ -		\$ 18,317,749
18	Non-Residential EE Earned Utility Incentive	4,203,327		1,374,876		(132,190)		-		5,446,013
19	Total EE Program Cost and Incentive Components	17,696,155		6,199,798		(132,191)		-		23,763,762
20	Revenue-related taxes and regulatory fees factor	1.004517		1.004493		1.004487		1.004450		
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	17,776,089		6,227,654		(132,784)		-		23,870,958
22	Non-Residential Net Lost Revenues	1,511,303	3,672,465	301,230	3,365,361	(532,294)	1,806,744	(2,579)	(679,799)	9,442,431
23	Total Non-Residential EE Revenue Requirement	19,287,392	3,672,465	6,528,884	3,365,361	(665,078)	1,806,744	(2,579)	(679,799)	33,313,389
24	Estimated Revenues Collected									34,105,061
25	Non-Residential EE Revenue Requirement									\$ (791,672)
26	Estimated interest to be Recovered									40,823
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest									\$ (750,849)
28	Projected SC Residential Sales (kWh)									4,627,612,637
29	SC Non-Residential EE billing factor (Cents/kWh)									(0.0162)

Non- Residential DSM Programs

		Rider 7 Year 2016 Estimate	True-up to be Collected in Rider 9	True-up to be Collected in Rider 10	True up to be Collected in Rider 11	True up to be Collected in Rider 12	Year 2016 Revenue Requirement True up
30	Non-Residential DSM Program Cost	\$ 4,568,988	(417,013)	(0)			\$ 4,151,975
31	Non-Residential DSM Earned Utility Incentive	1,679,535	(175,482)	(13,227)	(0)		1,490,826
32	Total DSM Program Cost and Incentive Components	6,248,523	(592,495)	(13,227)	(0)		5,642,801
33	Non-Residential Existing DSM Program Revenue Requirement Estimate	982,277	(173,856)				808,421
34	Total DSM Revenue Requirement	7,230,800	(766,351)	(13,227)	(0)		6,451,222
35	Revenue-related taxes and regulatory fees factor	1.004517	1.004493	1.004487	1.004450		
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	7,263,462	(769,794)	(13,287)	(0)		6,480,381
37	Estimated Revenues Collected						6,478,340
38	Non-Residential DSM Revenue Requirement						2,041
39	Estimated Interest Due						434
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest						\$ 2,475
41	Projected SC Non-Residential Sales (kWh)						5,448,234,396
42	SC Non-Residential DSM billing factor						0.0000

¹ Details outlining the change in the program cost and incentive component can be found in Year 2016 Exh 2.

² Updated lost revenues by year can be found in R11 Exh 1 page 2. Year 2016 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 12.

Amended Year 2017 Exhibit 1
NO CHANGE

Duke Energy Carolinas
For the period January 1, 2017 - December 31, 2017
Docket No. 2019-89-E
Calculation of Year 2017 True up of Y1, Y2 and Y3 Lost Revenues

Residential Energy Efficiency Programs			Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Estimate of Year 4 Lost Revenues	True-up to be Collected in Rider 12	Year 2017
Line										
1	Residential EE Program Cost	Year 2017 Exh 2 (B * D)	\$ 12,383,092		\$ 5,273,485		\$ -		\$ -	\$ 17,656,577
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D)	1,384,934		2,008,972		(92,627)		-	3,301,279
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10	13,768,026		7,282,457		(92,627)		-	20,957,856
4	Residential DSM Program Cost	Year 2017 Exh 2 (B * E)	2,997,324		251,290		-		-	3,248,614
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * E)	1,117,352		68,938		-		-	1,186,290
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11	4,114,676		320,228		-		-	4,434,904
7	Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data	576,427		22,800		-		-	599,227
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	18,459,129		7,625,485	-	(92,627)		-	25,991,987
9	Revenue-related taxes and regulatory fees factor		1.004493		1.004487		1.004450		1.005014	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	18,542,066		7,659,701		(93,039)		-	26,108,728
11	Residential Net Lost Revenues	R12 Exh 1 page 1	4,457,989	4,202,002	(197,107)	3,175,509	(131,090)	699,427	(839,921)	11,366,808
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	23,000,055	4,202,002	7,462,594	3,175,509	(224,129)	699,427	(839,921)	37,475,536
13	Estimated Revenues Collected	R12 Exh 2 Line 1								38,868,847
14	Residential EE Revenue Requirement	Line 12 - Line 13								\$ (1,393,311)
15	Estimated Interest to be Recovered	R12 Exh 4 page 1 Line 12								\$ (530,000)
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15								\$ (1,923,312)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs			Rider 8 Year 2017 Estimate	Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 11	Estimate of Year 4 Lost Revenues	True-up to be Collected in Rider 12	Year 2017
Reference										
17	Non- Residential EE Program Cost	Year 2017 Exh 2 (B * D) Line 24	\$ 14,343,825		\$ 12,031,371		\$ -		\$ -	\$ 26,375,196
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 24	4,131,457		3,136,348		1,261,167		-	8,528,972
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 24	18,475,282		15,167,719		1,261,167		-	34,904,168
20	Revenue-related taxes and regulatory fees factor		1.004493		1.004487		1.004450		1.005014	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	18,558,291		15,235,776		1,266,779		-	35,060,847
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 1	2,062,368	9,466,867	(2,154,791)	5,864,726	562,677	1,151,434	(1,416,219)	15,537,062
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	20,620,659	9,466,867	13,080,985	5,864,726	1,829,456	1,151,434	(1,416,219)	50,597,909
24	Estimated Revenues Collected	R12 Exh 2 Line 7								51,155,744
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24								\$ (557,835)
26	Estimated Interest to be Recovered	R12 Exh 4 page 3 Line 12								(19,449)
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26								\$ (577,285)
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 8								4,564,691,454
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100								(0.0126)

Non- Residential DSM Programs			Rider 9 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 10	True-up to be Collected in Rider 11	True-up to be Collected in Rider 12	Year 2017 Revenue Requirement True up
30	Non- Residential DSM Program Cost	Year 2017 Exh 2 (B * D) Line 26	\$ 4,874,691	\$ (377,480)		\$ (0)	\$ 4,497,211
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 26	1,817,203	(174,966)		0	1,642,237
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 26	6,691,894	(552,446)	-	(0)	6,139,448
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exh 4 Line 3	937,471	(107,933)		-	829,538
34	Total DSM Revenue Requirement	Line 32 + Line 33	7,629,365	(660,379)	-	(0)	6,968,986
35	Revenue-related taxes and regulatory fees factor		1.004517	1.004487	1.004450	1.005014	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35	7,663,827	(663,342)	-	(0)	7,000,484
37	Estimated Revenues Collected	R12 Exhibit 2 Line 13					6,953,384
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37					47,100
39	Estimated Interest Due	R12 Exh 4 Page 3 Line 25					145
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39					\$ 47,245
41	Projected SC Non-Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 9					5,448,234,396
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100					0.0009

¹ Details outlining the change in the program cost and incentive component can be found in Year 2017 Exh 2.

² Updated lost revenues by year can be found in R12 Exh 1 page 1. Year 2017 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

A

B.

$$C = A + B$$

D

$$E = C * D$$

SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 14)

SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 15)

SC Residential Peak
Demand Allocation
Factor (Year 2017,
Exhibit 3 Line 13)

28	Power Manager (Residential)	501,118	-	\$ 72,328,478	\$ 13,991,587	6,708,742	20,700,330		
29	EnergyWise for Business (Non-Residential)	5,453	2,943,906	2,770,718	2,475,377	33,964	2,509,341		
30	Power Share Call Option (Non-Residential)	-	-	-	-	-	-		
31	Power Share (Non-Residential)	340,369	-	49,126,820	13,285,111	4,121,797	17,406,908		
32	Total DSM	846,941	2,943,906	\$ 124,226,016	\$ 29,752,076	\$ 10,864,503	40,616,580	26.03457%	\$ 10,574,352
33	Total All Programs	1,033,884	934,365,890	663,495,616	192,059,952	54,472,631	246,532,584		66,436,377

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Amended Year 2017 Exhibit
NO CHANGE

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2020-xx-E
Allocation Factor Year 2017

			MWH			
				NC MW	SC MW	Total MW
Sales Allocator - 2016						
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676			
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535			
Allocation 1 to state based on kWh sales						
6	SC Retail	Line 2 / Line 5	27.12855%			
Demand Allocators - 2016						
7	Residential	Company Records	5,545,784	1,791,145	7,336,929	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420	
9	Greenwood	Company Records	-	13,651	13,651	
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000	
11	Wholesale Peak Demand	Company Records			1,683,179	
12	Total System Peak Demand	Line 10 + Line 11			18,087,179	
Allocation 2 to state based on peak demand						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%			
Allocation 3 SC res vs non-res Peak Demand to retail system peak						
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%			
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%			
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM						
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%			
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%			

Amended Year 2018 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2018 - December 31, 2018
Docket No. 2020-xx-E
Calculation of Year 2018 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y4 Lost Revenues

Residential Energy Efficiency Programs			Estimate of Year 4 Lost Revenues	Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Rider 11 Year 3 Lost Revenue Estimate	True up to be Collected in Rider 12	Year 2018
Line									
1	Residential EE Program Cost	Year 2018 Exh 2 (B * D)		\$ 15,283,486		\$ 5,717,424		\$ 0	\$ 21,000,911
2	Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D)		2,823,195		2,073,758		63,898	4,960,851
3	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 10		18,106,681		7,791,182		63,898	25,961,761
4	Residential DSM Program Cost	Year 2018 Exh 2 (B * E)		3,121,492		(36,918)		0	3,084,575
5	Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * E)		1,299,438		(120,575)		(2,660)	1,176,202
6	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 11		4,420,930		(157,493)		(2,660)	4,260,777
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exhibit 3 Line 3		587,633		(69,105)		-	518,528
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7		23,115,244		7,564,584		61,238	30,741,066
9	Revenue-related taxes and regulatory fees factor			1.004468		1.004450		1.005014	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9		23,218,523		7,598,246		61,545	30,878,314
11	Residential Net Lost Revenues	R12 Exh 1 page 2	\$ 2,188,505	6,835,885	2,340,939	(1,098,081)	3,658,997	2,397,385	14,135,126
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	2,188,505	30,054,408	2,340,939	6,500,166	3,658,997	2,458,930	45,013,440
13	Estimated Revenues Collected	R12 Exh 2 Line 2							42,642,343
14	Residential EE Revenue Requirement	Line 12 - Line 13	\$ 2,188,505						\$ 2,371,097
15	Estimated Interest to be Recovered	R12 Exh 4 page 1 Line 10							402,708
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15	\$ 2,188,505						\$ 2,773,805

See Exhibit A for rate

Non-Residential Energy Efficiency Programs			Estimate of Year 4 Lost Revenues	Rider 9 Year 2018 Estimate	Rider 10 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 11	Rider 11 Year 3 Lost Revenue Estimate	True up to be Collected in Rider 12	Year 2018
	Reference								
17	Non- Residential EE Program Cost	Year 2018 Exh 2 (B * D) Line 24		\$ 14,905,045		\$ (989,651)		\$ -	\$ 13,915,394
18	Non-Residential EE Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 24		5,806,479		1,107,249		(14,016)	6,899,713
19	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 24		20,711,524		103,583		(14,016)	20,815,107
20	Revenue-related taxes and regulatory fees factor			1.004468		1.004450		1.005014	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22		20,804,063		104,044		(14,086)	20,894,021
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 2	\$ 2,036,447	2,013,322	4,168,069	510,686	4,251,946	967,787	11,911,809
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	2,036,447						
24	Estimated Revenues Collected	R12 Exh 2 Line 18							32,805,830
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$ 2,036,447					953,701	\$ 32,092,034
26	Estimated Interest to be Recovered	R12 Exh 4 page 4 Line 12							713,796
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26	\$ 2,036,447						119,965
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 10	4,505,782,182						\$ 833,761
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100	0.0452						4,505,782,182
									0.0185

Non- Residential DSM Programs			Rider 9	True-up to be Collected	True up to be Collected	Year 2018 Revenue Requirement True up
			Year 2018 Estimate	in Rider 11	in Rider 12	
30	Non- Residential DSM Program Cost	Year 2018 Exh 2 (B * D) Line 26	\$ 4,294,311	\$ 595,319	\$ (0)	\$ 4,889,630
31	Non-Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (C * D) Line 26	1,787,668	81,051	(4,217)	1,864,502
32	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 26	6,081,979	676,370	(4,217)	6,754,131
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2018 Exh 3 Line 3	808,421	13,543	-	821,964
34	Total DSM Revenue Requirement	Line 32 + Line 33	6,890,400	689,913	(4,217)	7,576,096
35	Revenue-related taxes and regulatory fees factor		1.004468	1.004450	1.005014	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35	6,921,186	692,983	(4,238)	7,609,931
37	Estimated Revenues Collected	R12 Exhibit 2 Line 14				7,714,351
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37				(104,420)
39	Estimated Interest Due	R12 Exh 4 Page 4 Line 25				21,590
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39				\$ (82,830)
41	Projected SC Non-Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 11				5,495,148,562
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100				(0.0015)

¹ Details outlining the change in the program cost and incentive component can be found in Year 2018 Exh 2.

² Updated lost revenues by year can be found in R12 Exh 1 page 2. Year 2018 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

Year 2018 Exhibit 2

Residential Programs

EE Programs

1	Energy Efficiency Education	967	5,530,707	\$	3,503,558	\$	1,984,212	11.5%	\$	174,725	\$	2,158,937	27.2269600%	E1 * F1	\$	587,813	
2	Energy Efficient Appliances and Devices	32,802	195,213,017	\$	164,890,862	\$	42,585,486	11.5%	\$	14,065,118	\$	56,650,604	27.2269600%	E2 * F2	\$	15,424,237	
3	HVAC Energy Efficiency	1,640	6,367,174	\$	8,733,688	\$	6,937,076	11.5%	\$	206,610	\$	7,143,686	27.2269600%	E3 * F3	\$	1,945,009	
4	Income Qualified Energy Efficiency and Weatherization Assistance	888	6,845,653	\$	4,484,158	\$	6,466,549	0.0%	\$	-	\$	6,466,549	27.2269600%	E4 * F4	\$	1,760,645	
5	Multi-Family Energy Efficiency	2,303	21,288,910	\$	16,830,121	\$	3,595,399	11.5%	\$	1,521,993	\$	5,117,392	27.2269600%	E5 * F5	\$	1,393,310	
6	Energy Assessments	929	7,716,668	\$	6,938,272	\$	2,827,755	11.5%	\$	472,709	\$	3,300,464	27.2269600%	E6 * F6	\$	898,616	
7	Total for Residential Conservation Programs	39,528	242,962,129	\$	205,880,658	\$	64,396,478		\$	16,441,156	\$	80,837,633			\$	22,009,630	
8	My Home Energy Report (1)	95,887	344,759,844	\$	28,207,657	\$	12,736,300	11.5%	\$	1,779,206	\$	14,515,506	27.2269600%	E8 * F8	\$	3,952,131	
9	Total Residential Conservation and Behavioral Programs	135,416	587,721,974	\$	233,588,315	\$	77,132,778		\$	18,220,362	\$	95,353,140			\$	25,961,761	
SC Residential Peak Demand Allocation Factor																	
10	PowerManager	533,506	-	\$	78,750,405	\$	14,385,126	11.5%	\$	7,402,007	\$	21,787,133	26.29348%	38.6819100%	(E10+E26) *F10 *G10	\$	4,260,777
11	Total Residential	668,922	587,721,974	\$	312,338,720	\$	91,517,904		\$	25,622,369	\$	117,140,273	10.171%			\$	30,222,538

Non-Residential Programs

EE Programs

12	Non Residential Smart Saver Custom Technical Assessments	13	\$83,588	\$	81,442	\$	403,871	11.5%	\$	(37,079)	\$	366,791	27.2269600%	E12 * F12	\$	99,866
13	Non Residential Smart Saver Custom	4,054	30,333,040	\$	28,227,381	\$	6,039,708	11.5%	\$	2,551,582	\$	8,591,290	27.2269600%	E13 * F13	\$	2,339,147
14	Non Residential Smart Saver Energy Efficient HVAC Service Products	59	741,466	\$	518,380	\$	234,375	11.5%	\$	32,661	\$	267,036	27.2269600%	E14 * F14	\$	72,706
15	Non Residential Smart Saver Energy Efficient HVAC Products	893	2,906,386	\$	3,470,605	\$	1,615,730	11.5%	\$	213,311	\$	1,829,041	27.2269600%	E16 * F16	\$	497,952
16	Non Residential Smart Saver Energy Efficient Lighting Products	31	176,171,791	\$	17,750,083	\$	25,802,916	11.5%	\$	17,470,083	\$	43,127,908	27.2269600%	E17 * F17	\$	11,763,259
17	Non Residential Energy Efficient Pumps and Drives Products	421	2,669,016	\$	1,966,173	\$	276,631	11.5%	\$	194,297	\$	470,929	27.2269600%	E18 * F18	\$	128,220
18	Non Residential Energy Efficient ITEE	-	17,639	\$	3,605	\$	36,201	11.5%	\$	(3,748)	\$	32,453	27.2269600%	E19 * F19	\$	8,836
19	Non Residential Energy Efficient Process Equipment Products	75	331,222	\$	276,076	\$	67,107	11.5%	\$	24,031	\$	91,138	27.2269600%	E20 * F20	\$	24,814
20	Non Residential Smart Saver Performance Incentive	168	3,271,186	\$	2,010,821	\$	475,950	11.5%	\$	176,510	\$	652,460	27.2269600%	E21 * F21	\$	177,645
21	Small Business Energy Saver	13,374	76,696,523	\$	56,980,827	\$	15,941,553	11.5%	\$	4,719,517	\$	20,661,070	27.2269600%	E22 * F22	\$	5,625,381
22	Smart Energy in Offices	310	2,488,592	\$	175,126	\$	214,808	11.5%	\$	(4,563)	\$	210,237	27.2269600%	E23 * F23	\$	57,241
23	Total for Non-Residential Conservation Programs	50,922	296,712,448	\$	271,669,519	\$	51,108,880		\$	25,341,474	\$	76,450,353			\$	20,815,107

**SC Non-Residential Peak
Demand Allocation Factor**

24	EnergyWise for Business	7,999	2,599,904	\$	3,038,625	\$	3,053,547	11.5%	\$	(1,716)	\$	3,051,831					
25	PowerShare	332,631	-	\$	49,099,348	\$	12,889,014	11.5%	\$	4,164,188	\$	17,053,202					
26	Total for Non-Residential DSM Programs	340,629	2,599,904	\$	52,137,973	\$	15,942,561		\$	4,162,472	\$	20,105,033	26.29348%	61.3180900%	(E10+E26) *F26 *G26	\$	6,754,131
27	Total Non Residential	391,552	299,312,352	\$	323,607,492	\$	67,051,441		\$	29,503,946	\$	96,555,386				\$	27,569,238
28	Total All Programs	1,060,474	887,034,326	\$	635,946,212	\$	158,569,345		\$	55,126,315	\$	213,695,659				\$	57,791,776

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas
For the Period January 1, 2018 - December 31, 2018
Docket Number 2020-xx-E
Allocation Factor Year 2018

Sales Allocator - 2017

		MWH
1	NC Retail MWH Sales, at Generation	Company Records 58,534,269
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records 21,917,798
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2 80,452,067
4	Greenwood Retail MWH Sales, at Generation	Company Records 48,295
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4 80,500,362
	Allocation 1 to state based on kWh sales	
6	SC Retail	Line 2 / Line 5 27.22696%

Demand Allocators - 2017

		NC MW	SC MW	Total MW
7	Residential	Company Records 5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records 6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records -	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9 11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand			Company Records 1,443,703
12	Total System Peak Demand			Line 10 + Line 11 17,235,703

Allocation 2 to state based on peak demand

13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total 26.29348%
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Allocation 3 SC res vs non-res Peak Demand to retail system peak

14	SC Residential	Line 7,SC / Line 10 Total 10.17082%
15	SC Non-residential	Line 8, SC / Line 10 Total 16.12266%

Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM

16	SC Residential	Line 7,SC / Line 12 Total 9.31889%
17	SC Non-residential	Line 8, SC / Line 12 Total 14.77219%

Amended Year 2019 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2019 - December 31, 2019
Docket No. 2020-xx-E
Calculation of Year 2019 True up of Shared Savings, Y1 Lost Revenue and Estimate Y3 Lost Revenues

Residential Energy Efficiency Programs

Line		Estimate of Year 3 Lost Revenues	Rider 10 Year 2019 Estimate	Rider 11 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 12	Year 2019
1	Residential EE Program Cost	Year 2019 Exh 2 (B * D)	\$ 15,277,676		\$ 4,648,138	\$ 19,925,814
2	Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * D)	1,652,557		1,307,649	2,960,206
3	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 10	16,930,233		5,955,788	22,886,021
4	Residential DSM Program Cost	Year 2019 Exh 2 (B * E)	3,416,211		(230,155)	3,186,056
5	Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (C * E)	1,169,437		156,403	1,325,840
6	Total DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 11	4,585,648		(73,753)	4,511,895
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2019 Exhibit 3 Line 3	599,227		(73,152)	526,075
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	22,115,108		5,808,883	27,923,991
9	Revenue-related taxes and regulatory fees factor		1.004487		1.005014	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	22,214,338		5,838,008	28,052,347
11	Residential Net Lost Revenues	R12 Exh 1 page 3	\$ 4,134,540		1,802,617	10,723,175
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	4,134,540	2,189,992	7,640,625	38,775,521
13	Estimated Revenues Collected	R12 Exh 2 Line 3				31,953,825
14	Residential EE Revenue Requirement	Line 12 - Line 13	\$ 4,134,540			\$ 6,821,697
15	Estimated Interest to be Recovered	R12 Exh 4 page 2 Line 12				689,496
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15	\$ 4,134,540			\$ 7,511,193

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Estimate of Year 3 Lost Revenues	Rider 10 Year 2019 Estimate	Rider 11 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 12	Year 2019
17	Non- Residential EE Program Cost	Year 2019 Exh 2 (B * D) Line 24	\$ 15,526,930		\$ (3,415,190)	\$ 12,111,740
18	Non-Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * D) Line 24	3,499,309		682,509	4,181,818
19	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 24	19,026,239		(2,732,681)	16,293,558
20	Revenue-related taxes and regulatory fees factor		1.004487		1.005014	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22	19,111,610		(2,746,383)	16,365,227
22	Non-Residential Net Lost Revenues	R12 Exh 1 page 3	\$ 3,158,643	5,687,530	(3,084,171)	5,762,002
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	3,158,643	5,687,530	(5,830,554)	22,127,229
24	Estimated Revenues Collected	R12 Exh 2 Line 9				27,689,557
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$ 3,626,400			\$ (5,562,328)
26	Estimated Interest to be Recovered	R12 Exh 4 page 5 Line 12				(568,525)
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26	\$ 3,626,400			\$ (6,130,853)
28	Projected SC Residential Sales (kWh)	R12 Exhibit 3 Page 1 Line 12	4,448,799,169			4,448,799,169
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100	0.0815			(0.1378)

Non- Residential DSM Programs

		Rider 10 Year 19 Estimate	True up to be Collected in Rider 12	Year 2019 Revenue Requirement True up
30	Non- Residential DSM Program Cost	\$ 4,729,223	\$ (184,534)	\$ 4,544,689
31	Non-Residential DSM Earned Utility Incentive	1,618,907	272,312	1,891,219
32	Total DSM Program Cost and Incentive Components	6,348,130	87,778	6,435,908
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	829,538	(79,128)	750,410
34	Total DSM Revenue Requirement	7,177,668	8,650	7,186,318
35	Revenue-related taxes and regulatory fees factor	1.004487	1	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	7,209,874	8,694	7,218,568
37	Estimated Revenues Collected			7,057,618
38	Non-Residential DSM Revenue Requirement			160,950
39	Estimated Interest Due			16,451
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest			\$ 177,401
41	Projected SC Non-Residential Sales (kWh)			5,492,477,062
42	SC Non-Residential DSM billing factor			0.0032

¹ Details outlining the change in the program cost and incentive component can be found in Year 2019 Exh 2.

² Updated lost revenues by year can be found in R12 Exh 1 page 3. Year 2019 has been updated with most recent participation. Year 2 Lost Revenues are shown as an estimate. They will be trued up in Rider 13.

Amended Year 2019 Exhibit 2

Duke Energy Carolinas
Evans Exhibit 1, page 2
Vintage 2019 True Up - January 1, 2019 to December 31, 2019
Docket Number E-2020-xxxx
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H		
				=(A-B)*C		=(B+D)				
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor	SC Allocation Factor (2)	SC Residential Revenue Requirement
Residential Programs										
EE Programs										
1 Energy Efficiency Education	841	6,713,787	\$ 2,720,228	\$ 1,644,077	11.5%	\$ 123,757	\$ 1,767,834	26.8476100%		E1 * F1 \$ 474,621
2 Energy Efficient Appliances and Devices	31,803	187,351,705	\$ 109,019,234	\$ 40,433,533	11.5%	\$ 7,887,356	\$ 48,320,888	26.8476100%		E2 * F2 \$ 12,973,004
3 HVAC Energy Efficiency	2,029	7,329,114	\$ 7,862,313	\$ 7,402,907	11.5%	\$ 52,832	\$ 7,455,739	26.8476100%		E3 * F3 \$ 2,001,688
4 Income Qualified Energy Efficiency and Weatherization Assistance	1,074	8,782,273	\$ 3,896,116	\$ 7,344,325	0.0%	\$ -	\$ 7,344,325	26.8476100%		E4 * F4 \$ 1,971,776
5 Multi-Family Energy Efficiency	2,649	24,086,174	\$ 12,696,952	\$ 3,681,262	11.5%	\$ 1,036,804	\$ 4,718,067	26.8476100%		E5 * F5 \$ 1,266,688
6 Energy Assessments	946	7,886,916	\$ 4,631,948	\$ 3,153,757	11.5%	\$ 169,992	\$ 3,323,749	26.8476100%		E6 * F6 \$ 892,347
7 Total for Residential Conservation Programs	39,343	242,149,969	\$ 140,826,791	\$ 63,659,861		\$ 9,270,741	\$ 72,930,602			\$ 19,580,124
8 My Home Energy Report (1)	91,387	328,439,103	\$ 25,821,106	\$ 10,558,344	11.5%	\$ 1,755,218	\$ 12,313,561	26.8476100%		E8 * F8 \$ 3,305,897
9 Total Residential Conservation and Behavioral Programs	130,729	570,589,071	\$ 166,647,897	\$ 74,218,205		\$ 11,025,959	\$ 85,244,164			\$ 22,886,021
SC Residential Peak Demand Allocation Factor										
10 PowerManager	568,235	-	\$ 84,747,635	\$ 13,386,942	11.5%	\$ 8,206,480	\$ 21,593,422	25.6859100%	41.212790%	(E10+E26) *F10 *G10 \$ 4,511,895
11 Total Residential	698,965	570,589,071	\$ 251,395,532	\$ 87,605,147		\$ 19,232,438	\$ 106,837,585	10.585880%		\$ 27,397,916
Non-Residential Programs										
EE Programs										
12 Non Residential Smart Saver Custom Technical Assessments	148	1,930,762	\$ 721,698	\$ 296,006	11.5%	\$ 48,955	\$ 344,961	26.8476100%		E12 * F12 \$ 92,614
13 Non Residential Smart Saver Custom	10,109	52,522,612	\$ 38,688,495	\$ 8,873,872	11.5%	\$ 3,428,682	\$ 12,302,554	26.8476100%		E13 * F13 \$ 3,302,942
14 Non Residential Smart Saver Energy Efficient Food Service Products	76	870,041	\$ 379,642	\$ 339,996	11.5%	\$ 4,559	\$ 344,555	26.8476100%		E14 * F14 \$ 92,505
15 Non Residential Smart Saver Energy Efficient HVAC Products	1,367	5,950,986	\$ 5,012,312	\$ 2,208,364	11.5%	\$ 322,454	\$ 2,530,818	26.8476100%		E16 * F16 \$ 679,464
16 Non Residential Smart Saver Energy Efficient Lighting Products	28,280	149,658,444	\$ 105,053,019	\$ 20,834,766	11.5%	\$ 9,685,099	\$ 30,519,865	26.8476100%		E17 * F17 \$ 8,193,854
17 Non Residential Energy Efficient Pumps and Drives Products	166	1,043,899	\$ 545,837	\$ 189,172	11.5%	\$ 41,017	\$ 230,189	26.8476100%		E18 * F18 \$ 61,800
18 Non Residential Energy Efficient ITEE	-	8,442	\$ 1,036	\$ 44,335	11.5%	\$ (4,979)	\$ 39,355	26.8476100%		E19 * F19 \$ 10,566
19 Non Residential Energy Efficient Process Equipment Products	84	540,487	\$ 329,501	\$ 119,843	11.5%	\$ 24,111	\$ 143,954	26.8476100%		E20 * F20 \$ 38,648
20 Non Residential Smart Saver Performance Incentive	391	4,545,995	\$ 2,330,743	\$ 785,165	11.5%	\$ 177,741	\$ 962,906	26.8476100%		E21 * F21 \$ 258,517
21 Small Business Energy Saver	9,196	53,674,194	\$ 27,495,209	\$ 11,421,399	11.5%	\$ 1,848,488	\$ 13,269,887	26.8476100%		E22 * F22 \$ 3,562,648
22 Smart Energy in Offices	-	-	\$ -	\$ -	11.5%	\$ -	\$ -	26.8476100%		E23 * F23 \$ -
23 Total for Non-Residential Conservation Programs	49,817	270,745,861	\$ 180,557,492	\$ 45,112,917		\$ 15,576,126	\$ 60,689,043			\$ 16,293,558
SC Non-Residential Peak Demand Allocation Factor										
24 EnergyWise for Business	11,598	2,704,118	\$ 3,164,708	\$ 3,687,462	11.5%	\$ (60,117)	\$ 3,627,345			
25 PowerShare	342,590		\$ 51,094,491	\$ 13,022,816	11.5%	\$ 4,378,243	\$ 17,401,059			
26 Total for Non-Residential DSM Programs	354,188	2,704,118	\$ 54,259,199	\$ 16,710,278		\$ 4,318,126	\$ 21,028,404	25.6859100%	58.787211%	(E10+E26) *F26 *G26 \$ 6,435,908
27 Total Non Residential	404,005	273,449,978	\$ 234,816,691	\$ 61,823,195		\$ 19,894,252	\$ 81,717,447	15.100030%		\$ 22,729,466
28 Total All Programs	1,102,970	844,039,050	\$ 486,212,223	\$ 149,428,343		\$ 39,126,690	\$ 188,555,033			\$ 50,127,383
(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages										
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak										

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Amended Year 2019 Exhibit 3
NO CHANGE

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2020-xx-E
Actual Existing DSM Program Costs - Year 2019

		Year 2019	
1 Actual total IS/SG credits to be paid for native load programs	Line 9	\$ 5,471,225	
		Residential	Non-residential
2 SC retail allocation factor - system peak demand	Year 2019 Exhibit 4, Line 16, 17	9.61530%	13.71557%
3 SC retail share IS/SG program costs	Line 1 * Line 2	\$ 526,075	\$ 750,410

PROGRAM	Jan - Dec 2019 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$ 3,843,292
5 STANDBY GENERATOR PAYMENTS	165,541
6 WHOLESALE A/C LOAD CONTROL CREDITS	338,624
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS	1,123,768
8 Wholesale Penalties	
9 TOTAL CREDITS	\$ 5,471,225

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2020-xx-E
Allocation Factor Year 2019

Sales Allocator - 2018

		MWH
1	NC Retail MWH Sales, at Generation	Company Records 62,147,533
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records 22,828,069
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2 84,975,602
4	Greenwood Retail MWH Sales, at Generation	Company Records 52,719
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4 85,028,321
	Allocation 1 to state based on kWh sales	
6	SC Retail	Line 2 / Line 5 26.84761%

Demand Allocators - 2018

		NC MW	SC MW	Total MW
7	Residential	Company Records 5,420,002	1,681,673	7,101,675
8	Non Residential (SC - Excl. Greenwood)	Company Records 6,373,991	2,398,790	8,772,781
9	Greenwood	Company Records -	11,544	11,544
10	Total	Line 7 + Line 8+ Line 9 11,793,993	4,092,007	15,886,000
11	Wholesale Peak Demand			1,603,545
12	Total System Peak Demand			Line 10 + Line 11 17,489,545
	Allocation 2 to state based on peak demand			
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total		25.68591%
	Allocation 3 SC res vs non-res Peak Demand to retail peak			
14	SC Residential	Line 7,SC / Line 10 Total		10.58588%
15	SC Non-residential	Line 8, SC / Line 10 Total		15.10003%
	Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total		9.61530%
17	SC Non-residential	Line 8, SC / Line 12 Total		13.71557%

Amended Year 2019 Exhibit 5

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2020-xx-E
Actual Program Costs - Year 2019

	System Costs Months of January 1, 2019 - December 31, 2019	Residential	Non-Residential
Energy Efficiency (EE) Programs:			
1 My Home Energy Report	\$ 10,558,344	10,558,344	
2 Energy Assessments	3,153,757	3,153,757	
3 Residential – Smart Saver Energy Efficiency Program	7,402,907	7,402,907	
4 Energy Efficient Appliances and Devices	40,433,533	40,433,533	
Income Qualified Energy Efficiency and Weatherization			
5 Assistance	7,344,325	7,344,325	
6 Multi-Family Energy Efficiency	3,681,262	3,681,262	
7 Appliance Recycle Program	-	-	
8 Energy Efficiency Education	1,644,077	1,644,077	
9 Nonresidential Smart Saver Performance Incentives	785,165		785,165
10 Smart Saver Custom Technical Assessments	296,006		296,006
11 Smart Saver Custom	8,873,872		8,873,872
12 Smart Saver Efficient Food Service Products	339,996		339,996
13 Smart Saver Efficient HVAC Products	2,208,364		2,208,364
14 Smart Saver Efficient Lighting Products	20,834,766		20,834,766
15 Nonresidential Energy Efficient Pumps and Drives	189,172		189,172
16 Nonresidential Energy Efficient ITEE	44,335		44,335
17 Nonresidential Energy Efficient Process Equipment Products	119,843		119,843
18 Small Business Energy Saver	11,421,399		11,421,399
19 Smart Energy in Offices	-		-
20 Business Energy Report	-		-
21 Subtotal EE Program Costs	\$ 119,331,123	\$ 74,218,205	\$ 45,112,917
Demand-Side Management (DSM) Programs:			
22 Power Manager	\$ 13,386,942	\$ 13,386,942	
23 EnergyWise for Business	3,687,462		3,687,462
24 Power Share	13,022,816		13,022,816
25 Subtotal DSM Program Costs	\$ 30,097,220	\$ 13,386,942	\$ 16,710,278
26 Total EE & DSM Program Costs - Year 2019	<u>\$ 149,428,343</u>	<u>\$ 87,605,147</u>	<u>\$ 61,823,195</u>

Amended Year 2019 Exhibit 6 - NO CHANGE

Duke Energy Carolinas
Changes to DSM/EE Cost Recovery Vintage 2019 True Up January 1, 2019 - December 31, 2019
Changes from Prior Filing Due to Application of M&V and Participation
System kWh and kW Impacts Net Free Riders at the Plant

Residential Programs	Filed in Docket 2018-72-E		Filed in Docket 2020-XX-E		Overall Variance		2018-72-E	2020-xx-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
	Program Name						System Participation		Participation								
	5,701,506	1,339	6,713,787	841	1,012,280	(497)	26,705	24,785	(1,920)	(469,919)	(96)	-	-	1,422,200	(401)	1,012,280	(497)
Energy Efficiency Education Program for Schools	97,320,521	16,726	187,351,705	31,803	90,031,183	15,077	3,997,670	9,893,466	5,895,796	102,630,042	13,446	5,166,789	389	(17,765,648)	1,242	90,031,183	15,077
Energy Efficient Appliances and Devices	5,130,696	1,294	7,329,114	2,029	2,198,418	735	9,630	25,852	16,222	3,814,398	1,676	(507,093)	(179)	(1,108,887)	(761)	2,198,418	735
Residential – Smart Saver Energy Efficiency Program	4,043,435	639	8,782,273	1,074	4,738,837	436	10,114	10,814	700	967,344	135	-	-	4,018,972	332	4,986,316	467
Income Qualified Energy Efficiency and Weatherization Assistance	19,846,385	2,001	24,086,174	2,649	4,239,789	648	342,660	493,307	150,647	1,757,319	173	2,504,662	317	(22,191)	158	4,239,789	648
Multi-Family Energy Efficiency	6,542,935	1,040	7,886,916	946	1,343,981	(94)	34,304	61,692	27,388	1,826,639	273	169,564	19	(652,222)	(386)	1,343,981	(94)
Energy Assessments	312,934,099	79,359	328,439,103	91,387	15,505,004	12,027	1,364,000	1,339,152	(24,848)	(8,076,363)	(2,011)	-	-	23,581,367	14,038	15,505,004	12,027
My Home Energy Report		534,419		568,235		33,816		503,131	534,967		31,836		-		-		33,816
PowerManager																	
Residential Programs Total	451,519,578	636,816	570,589,071	698,965	119,069,493	62,148	6,288,214	12,384,035	6,095,821	102,509,461	47,412	7,333,923	545	9,473,589	14,222	119,316,972	62,179

Non-Residential Programs	Filed in Docket 2018-72-E		Filed in Docket 2020-XX-E		Overall Variance		2018-72-E	2020-xx-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW				kWh	kW	kWh	kW	kWh	kW	kWh	kW
	Program Name						System Participation		Participation								
Non Residential Smart Saver Custom Technical Assessments	8,831,594	1,008	1,930,762	148	(6,900,831)	(860)	6,125	4	(6,121)	-	-	(6,900,831)	(860)	-	-	(6,900,831)	(860)
Non Residential Smart Saver Custom	60,678,525	6,927	52,522,612	10,109	(8,155,912)	3,183	48,280	34,709	(13,571)	-	-	(8,155,912)	3,183	-	-	(8,155,912)	3,183
Non Residential Smart Saver Energy Efficient Food Service Products	10,601,930	1,159	870,041	76	(9,731,890)	(1,083)	11,695	2,419	(9,276)	(4,662,804)	(459)	(4,052,247)	(474)	(1,016,839)	(149)	(9,731,890)	(1,083)
Non Residential Smart Saver Energy Efficient HVAC Products	13,318,652	5,012	5,950,986	1,367	(7,367,666)	(3,645)	231,113	3,038,732	2,807,618	(1,001,440)	(934)	(5,655,028)	(2,500)	(711,198)	(211)	(7,367,666)	(3,645)
Non Residential Smart Saver Energy Efficient Lighting Products	122,943,286	16,312	149,658,444	28,280	26,715,157	11,968	14,523,270	5,456,789	(9,066,481)	(12,262,414)	(368)	15,890,028	5,915	23,087,543	6,421	26,715,157	11,968
Non Residential Energy Efficient Pumps and Drives Products	6,310,561	978	1,043,899	166	(5,266,662)	(812)	8,662	1,131	(7,532)	(5,550,813)	(856)	(31,163)	(6)	315,313	50	(5,266,662)	(812)
Non Residential Energy Efficient IT/EE	6,503,152	50	8,442	-	(6,494,710)	(50)	5,382	134	(5,248)	(6,394,065)	(50)	(99,171)	-	(1,474)	-	(6,494,710)	(50)
Non Residential Energy Efficient Process Equipment Products	1,052,919	129	540,487	84	(512,432)	(45)	4,669	11,232	(32)	(187,188)	(32)	(423,895)	(30)	98,652	17	(512,432)	(45)
Non Residential Smart Saver Performance Incentive	21,489,480	2,453	4,545,995	391	(16,943,485)	(2,062)	23,254,911	19	(23,254,892)	-	-	(16,943,485)	(2,062)	-	-	(16,943,485)	(2,062)
Smart Energy in Offices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Business Energy Saver	75,258,073	14,501	53,674,194	9,196	(21,583,880)	(5,306)	61,700,000	51,421,356	(10,278,644)	(12,422,870)	(4,316)	470	0	(9,161,481)	(989)	(21,583,880)	(5,306)
Business Energy Report	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EnergyWise for Business	2,885,926	16,662	2,704,118	11,598	(181,808)	(5,064)	19,023	15,053	(3,970)	504,397	(4,836)	-	-	(686,206)	(229)	(181,808)	(5,064)
PowerShare		337,864		342,590		4,726		318,083	322,533		4,450		-		-		4,726
Non-Residential Programs Total	329,874,099	403,056	273,449,978	404,005	(56,424,120)	950	100,131,213	60,304,110	(39,827,103)	(35,682,302)	(7,076)	(32,666,129)	3,116	11,924,311	4,910	(56,424,120)	950
Total Residential and Non-Residential Programs	781,393,677	1,039,872	844,039,050	1,102,970	62,645,373	63,098	106,419,427	72,688,145	(33,731,281)	66,827,159	40,336	(25,332,207)	3,661	21,397,900	19,132	62,892,852	63,129

NOTE - The actual per unit impacts are reflective of the following EM&V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Income Qualified Energy Efficiency and Weatherization Assistance	2019-89-E	Duke Energy Carolinas and Duke Energy Progress 2017 Neighborhood Energy Saver Program Evaluation Report - Final	11/30/2019
My Home Energy Report	2019-89-E	My Home Energy Report Program Evaluation	7/10/2019
PowerShare	2019-89-E	Duke Energy PowerShare Program 2018 Evaluation Report for Duke Energy Carolinas	5/2/2019
Residential – Smart Saver Energy Efficiency Program	2019-89-E	Smart Saver Evaluation Report – May 1, 2016 – April 30, 2017 (Revised)	3/15/2019
Energy Efficiency Education in Schools Program	2019-89-E	Energy Efficiency Education in Schools Program Year 2017-2018 Evaluation Report	2/1/2019
Smart Saver® Non-Residential Custom Program	2019-89-E	Smart Saver® Non-Residential Custom Program Years 2016-2017 Evaluation Report	11/29/2018
			3/1/2017

Amended Year 2020 Exhibit 1
NO CHANGE

Duke Energy Carolinas
Docket No. 2020-xx-E
Calculation of Year 2020 Estimate of Lost Revenues Year 2

Residential Energy Efficiency Programs

Line	Reference	Year 2 Projections
1 Residential Net Lost Revenues - Year 2	R12 Exh 1 page 4	\$1,975,653
2 Projected SC Residential Sales (kWh)	R12 Exh 3 Page 1 Line 3	6,591,986,001
3 SC Residential EE Billing Factor (Cents/kWh)	Line 1 / Line 2	0.0300

Non-Residential Energy Efficiency Programs

Line	Reference	Year 2 Projections
4 Non-Residential Net Lost Revenues - Year 2	R12 Exh 1 page 4	\$3,314,813
5 Projected SC Non-Residential EE Sales (kWh)	R12 Exh 3 Page 1 Line 14	4,404,495,996
6 SC Non-Residential EE Billing Factor (Cents/kWh)	Line 4 / Line 5	0.0753

Duke Energy Carolinas
Docket No. 2020-xx-E
Calculation of Year 2021 Estimate of Earned Utility Savings and Year 1 Lost Revenues

Energy Efficiency Programs		
Line	Reference	Year 1
1 Residential EE Program Cost	Year 2021 Exh 2 (B * E) Line 10	\$13,647,972
2 Residential EE Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 10	1,347,911
3 Total EE Program Cost and Incentive Components	Year 2021 Exh 2 Line 10	14,995,883
4 Residential DSM Program Cost	Year 2021 Exh 2 (B * E) Line 11	4,250,561
5 Residential DSM Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 11	1,574,866
6 Total DSM Program Cost and Incentive Components	Year 2021 Exh 2 Line 11	5,825,427
7 Residential Existing DSM Program Revenue Requirement Estimate	Year 2019 Exhibit 3 Line 3	526,075
8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	21,347,385
9 Revenue-related taxes and regulatory fees factor		1.005014
10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	21,454,421
11 Residential Net Lost Revenues	R12 Exh 1 page 6	8,997,541
12 Total Residential EE Revenue Requirement	Line 10 + Line 11	30,451,961
13 Projected SC Residential Sales (kWh)	R12 Exh 3 Page 1 Line 3	6,591,986,001
14 SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.4620

Amended Year 2021 Exhibit 1, Page 2
NO CHANGE

Duke Energy Carolinas
Docket No. 2020-xx-E
Calculation of Year 2021 Estimated Earned Utility Savings and Year 1 Lost Revenues

Non-Residential Energy Efficiency Programs		
Line	Reference	Year 1
1 Non- Residential EE Program Cost	Year 2021 Exh 2 (B * E) Line 25	\$14,055,510
2 Non-Residential EE Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 25	3,977,540
3 Total EE Program Cost and Incentive Components	Year 2021 Exh 2 Line 25	18,033,049
4 Revenue-related taxes and regulatory fees factor		1.005014
5 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	18,123,467
6 Non-Residential Net Lost Revenues	R12 Exh 1 p 5	1,982,820
7 Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	20,106,288
8 Projected SC Non-Residential Sales (kWh)	R12 Exh 3 Page 1 Line 16	4,404,495,996
9 SC Non-Residential EE billing factor (Cents/kWh)	Line 7 / Line 8 *100	0.4565
Non- Residential DSM Programs		
		Year 1
10 Non-Residential DSM Program Cost	Year 2021 Exh 2 (B * E) Line 26	\$6,063,134
11 Non-Residential DSM Earned Utility Incentive	Year 2021 Exh 2 (C * E) Line 26	2,246,437
12 Total Non-Residential DSM Program Cost and Incentive Components	Year 2021 Exh 2 Line 26	8,309,571
13 Non-Residential Existing DSM Program Revenue Requirement	Year 2018 Exhibit 3 Line 3	750,410
14 Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	9,059,981
15 Revenue-related taxes and regulatory fees factor		1.005014
16 Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	9,105,408
17 Projected SC Non-Residential Sales (kWh)	R12 Exh 3 p 1 Line 17	5,492,477,062
18 SC Non-Residential DSM billing factor	Line 16 / Line 17 * 100	0.1658

Amended Year 2021 Exhibit 2
NO CHANGE

Duke Energy Carolinas
Exhibit 1, page 2
Vintage 2020 Estimate - January 1, 2021 to December 31, 2021
Docket Number
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H			
				=(A-B)*C	=(B+D)						
	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	SC Retail kWh Sales Allocation Factor	SC Allocation Factor (2)	SC Residential Revenue Requirement
Residential Programs											
EE Programs											
1 Energy Efficiency Education Program for Schools	997	1,407	7,951,567	\$ 3,331,203	\$ 2,315,055	11.5%	\$ 116,857	\$ 2,431,912	26.8476100%		E2 * F2 \$ 652,910
2 Energy Efficient Appliances and Devices	9,790	5,988	56,621,851	\$ 28,517,100	\$ 10,615,734	11.5%	\$ 2,058,657	\$ 12,674,391	26.8476100%		E3 * F3 \$ 3,402,771
3 HVAC Energy Efficiency	1,347	1,284	5,570,374	\$ 5,285,708	\$ 5,936,054	11.5%	\$ (74,790)	\$ 5,861,264	26.8476100%		E4 * F4 \$ 1,573,609
4 Income Qualified Energy Efficiency and Weatherization Assistance	1,635	1,798	8,977,504	\$ 6,067,525	\$ 8,077,022	0.0%	\$ -	\$ 8,077,022	26.8476100%		E5 * F5 \$ 2,168,487
5 Multi-Family Energy Efficiency	2,983	4,947	28,264,645	\$ 15,677,339	\$ 4,853,158	11.5%	\$ 1,244,781	\$ 6,097,939	26.8476100%		E6 * F6 \$ 1,637,151
6 Energy Assessments	1,778	1,264	14,921,390	\$ 8,096,762	\$ 6,105,383	11.5%	\$ 229,009	\$ 6,334,392	26.8476100%		E7 * F7 \$ 1,700,633
7 Total for Residential Conservation Programs	18,528	16,688	122,307,332	\$ 66,975,637	\$ 37,902,406		\$ 3,574,514	\$ 41,476,919			\$ 11,135,562
8 My Home Energy Report (1)	94,985	39,714	342,160,803	\$ 25,507,226	\$ 12,932,554	11.5%	\$ 1,446,087	\$ 14,378,641	26.8476100%		E9 * F9 \$ 3,860,322
9 Total Residential Conservation and Behavioral Programs	113,514	56,402	464,468,135	\$ 92,482,862	\$ 50,834,960		\$ 5,020,601	\$ 55,855,561			\$ 14,995,883
SC Residential Peak Demand Allocation Factor											
10 PowerManager	658,987	-	-	\$ 108,313,027	\$ 20,427,903	11.5%	\$ 10,106,789	\$ 30,534,692	25.6859100%	41.2127894%	(E11+E29) *F11 *G11 \$ 5,825,427
11 Total Residential	772,501	56,402	464,468,135	\$ 200,795,889	\$ 71,262,862		\$ 15,127,390	\$ 86,390,253			\$ 20,821,310
Non-Residential Programs											
EE Programs											
12 Non Residential Smart Saver Custom Technical Assessments	626	626	5,482,371	\$ 3,004,687	\$ 1,106,646	11.5%	\$ 218,275	\$ 1,324,921	26.8476100%		E13 * F13 \$ 355,710
13 Non Residential Smart Saver Custom	7,579	7,579	53,115,768	\$ 32,061,270	\$ 10,192,972	11.5%	\$ 2,514,854	\$ 12,707,826	26.8476100%		E14 * F14 \$ 3,411,748
14 Non Residential Smart Saver Energy Efficient Food Service Products	212	196	4,280,461	\$ 1,447,684	\$ 1,057,658	11.5%	\$ 44,853	\$ 1,102,511	26.8476100%		E16 * F16 \$ 295,998
15 Non Residential Smart Saver Energy Efficient HVAC Products	1,118	439	3,698,306	\$ 2,817,507	\$ 1,732,792	11.5%	\$ 124,742	\$ 1,857,535	26.8476100%		E17 * F17 \$ 498,704
16 Non Residential Smart Saver Energy Efficient Lighting Products	27,805	26,034	156,866,525	\$ 106,040,070	\$ 24,280,837	11.5%	\$ 9,402,312	\$ 33,683,149	26.8476100%		E18 * F18 \$ 9,043,120
17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	429	424	2,717,418	\$ 1,354,655	\$ 424,983	11.5%	\$ 106,912	\$ 531,896	26.8476100%		E19 * F19 \$ 142,801
18 Non Residential Energy Efficient ITEE	-	-	272,355	\$ 26,710	\$ 47,381	11.5%	\$ (2,377)	\$ 45,004	26.8476100%		E20 * F20 \$ 12,082
19 Non Residential Energy Efficient Process Equipment Products	186	206	877,998	\$ 431,751	\$ 117,383	11.5%	\$ 36,152	\$ 153,536	26.8476100%		E21 * F21 \$ 41,221
20 Non Residential Smart Saver Performance Incentive	1,701	1,701	14,901,572	\$ 7,635,585	\$ 2,365,586	11.5%	\$ 606,050	\$ 2,971,636	26.8476100%		E22 * F22 \$ 797,813
21 Small Business Energy Saver	9,404	5,944	50,790,447	\$ 26,361,247	\$ 11,026,688	11.5%	\$ 1,763,474	\$ 12,790,162	26.8476100%		E23 * F23 \$ 3,433,853
22 Total for Non-Residential Conservation Programs	49,060	43,150	293,003,221	\$ 181,181,165	\$ 52,352,927		\$ 14,815,247	\$ 67,168,174			\$ 18,033,049
SC Non-Residential Peak Demand Allocation Factor											
23 EnergyWise for Business	20,801	-	2,557,568	\$ 4,445,492	\$ 5,981,812	11.5%	\$ (176,677)	\$ 5,805,135			
24 PowerShare	344,454	664	-	\$ 56,760,162	\$ 13,743,409	11.5%	\$ 4,946,927	\$ 18,690,336			
25 Total for Non-Residential DSM Programs	365,255	664	2,557,568	\$ 61,205,655	\$ 19,725,221		\$ 4,770,250	\$ 24,495,471	25.6859100%	58.7872106%	(E11+E29) *F29 *G29 \$ 8,309,571
26 Total Non Residential	414,316	43,814	295,560,789	\$ 242,386,820	\$ 72,078,147		\$ 19,585,497	\$ 91,663,645			\$ 26,342,621
27 Total All Programs	1,186,817	100,217	760,028,924	\$ 443,182,709	\$ 143,341,010		\$ 34,712,888	\$ 178,053,898			\$ 47,163,931
(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages											
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak											

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

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Allocation Factor Year 2019 and used for Estimate of Year 2021

Sales Allocator - 2018

		MWH
1	NC Retail MWH Sales, at Generation	Company Records 62,147,533
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records 22,828,069
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2 84,975,602
4	Greenwood Retail MWH Sales, at Generation	Company Records 52,719
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4 85,028,321
	Allocation 1 to state based on kWh sales	
6	SC Retail	Line 2 / Line 5 26.84761%

Demand Allocators - 2018

		NC MW	SC MW	Total MW
7	Residential	Company Records 5,420,002	1,681,673	7,101,675
8	Non Residential (SC - Excl. Greenwood)	Company Records 6,373,991	2,398,790	8,772,781
9	Greenwood	Company Records -	11,544	11,544
10	Total	Line 7 + Line 8+ Line 9 11,793,993	4,092,007	15,886,000
11	Wholesale Peak Demand			1,603,545
12	Total System Peak Demand			Line 10 + Line 11 17,489,545
	Allocation 2 to state based on peak demand			
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total		25.68591%
	Allocation 3 SC res vs non-res Peak Demand to retail system peak			
14	SC Residential	Line 7,SC / Line 10 Total		10.58588%
15	SC Non-residential	Line 8, SC / Line 10 Total		15.10003%
	Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total		9.61530%
17	SC Non-residential	Line 8, SC / Line 12 Total		13.71557%

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	Year 2017	2017 (1/2 year) ^(a)	2018	2019	2020	2021	Total
Residential							
1 Appliance Recycling	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 Energy Efficiency Education Program for Schools	55,350	55,350	100,919	73,720	24,447		254,436
3 Energy Efficient Appliances and Devices	1,245,721	1,245,721	2,448,502	1,788,952	645,928		6,129,103
4 Residential – Smart Saver Energy Efficiency Program	53,370	53,370	92,335	67,439	20,886		234,029
5 Income Qualified Energy Efficiency and Weatherization Assistance	45,063	45,063	76,672	56,016	16,954		194,705
6 Multi-Family Energy Efficiency	128,050	128,050	209,178	152,601	43,338		533,167
7 My Home Energy Report	3,641,670	3,641,670	-	-	-		3,641,670
8 Energy Assessments	84,808	84,808	150,158	109,685	35,048		379,699
9 Total Lost Revenues	\$ 5,254,032	\$ 5,254,032	\$ 3,077,763	\$ 2,248,412	\$ 786,602	\$ -	\$ 11,366,808
10 Found Residential Revenue	-	-	-	-	-	-	-
11 Net Lost Residential Revenue	\$ 5,254,032	\$ 5,254,032	\$ 3,077,763	\$ 2,248,412	\$ 786,602	\$ -	\$ 11,366,808
Non-Residential							
		2017 (1/2 year) ^(a)	2018	2019	2020	2021	Total
12 Non Residential Smart Saver Custom Technical Assessments	\$ 98,727	\$ 98,727	\$ 147,311	\$ 102,378	\$ 22,871	\$ -	\$ 371,286
13 Non Residential Smart Saver Custom	346,582	346,582	489,807	339,562	67,102		1,243,053
14 Non Residential Smart Saver Energy Efficient Food Service Products	5,578	5,578	8,350	5,816	1,321		21,066
15 Non Residential Smart Saver Energy Efficient HVAC Products	29,059	29,059	50,322	35,188	10,266		124,836
16 Non Residential Smart Saver Energy Efficient Lighting Products	2,276,326	2,276,326	3,829,612	2,675,973	748,047		9,529,958
17 Non Residential Energy Efficient Pumps and Drives Products	9,540	9,540	19,793	13,763	4,894		47,989
18 Non Residential Energy Efficient ITEE	20	20	34	24	7		83
19 Non Residential Energy Efficient Process Equipment Products	4,423	4,423	15,012	10,312	4,876		34,623
20 Non Residential Smart Saver Performance Incentive	-	-	-	-	-		-
21 Small Business Energy Saver	832,006	832,006	1,623,149	1,136,213	382,331		3,973,700
22 Smart Energy in Offices	73,273	73,273	27,109	-	-		100,382
23 EnergyWise for Business	13,042	13,042	38,047	26,781	12,215		90,085
24 Business Energy Report	-	-	-	-	-		-
25 Total Lost Revenues	\$ 3,688,576	\$ 3,688,576	\$ 6,248,546	\$ 4,346,010	\$ 1,253,930	\$ -	\$ 15,537,062
26 Found Non-Residential Revenue	-	-	-	-	-	-	-
27 Net Lost Residential Revenue	3,688,576	3,688,576	6,248,546	4,346,010	1,253,930		15,537,062

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South Carolina Lost Revenues Vintage Year 2014-2020

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Year 2018		2017	2018 (1/2 year) ^(a)	2019	2020	2021	Total
Residential							
28	Appliance Recycling		\$ -	\$ -	\$ -	\$ -	\$ -
29	Energy Efficiency Education Program for Schools		41,156	92,505	94,634	51,165	279,460
30	Energy Efficient Appliances and Devices		1,525,153	3,463,649	3,543,552	1,932,422	10,464,775
31	Residential – Smart Saver Energy Efficiency Program		41,873	82,630	84,525	40,313	249,341
32	Income Qualified Energy Efficiency and Weatherization Assistance		61,921	105,228	107,671	42,238	317,059
33	Multi-Family Energy Efficiency		113,699	174,208	178,107	58,263	524,278
34	My Home Energy Report		4,062,061	-	-	-	4,062,061
35	Energy Assessments		76,345	141,476	144,732	64,104	426,657
36	Total Lost Revenues		\$ 5,922,208	\$ 4,059,697	\$ 4,153,221	\$ 2,188,505	\$ 16,323,631
37	Found Residential Revenue		-	-	-	-	-
38	Net Lost Residential Revenue		\$ 5,922,208	\$ 4,059,697	\$ 4,153,221	\$ 2,188,505	\$ 16,323,631
Non-Residential							
			2018 (1/2 year) ^(a)	2019	2020	2021	Total
39	Non Residential Smart Saver Custom Technical Assessments		\$ 1,799	\$ 2,010	\$ 2,050	\$ 171	\$ 6,029
40	Non Residential Smart Saver Custom		130,273	363,407	369,597	233,400	1,096,678
41	Non Residential Smart Saver Energy Efficient Food Service Products		5,253	9,114	9,268	3,799	27,434
42	Non Residential Smart Saver Energy Efficient HVAC Products		18,852	50,582	51,579	31,711	152,724
43	Non Residential Smart Saver Energy Efficient Lighting Products		1,889,248	3,179,271	3,235,116	1,255,494	9,559,129
44	Non Residential Energy Efficient Pumps and Drives Products		1,940	10,899	11,057	9,042	32,938
45	Non Residential Energy Efficient ITEE		69	316	322	249	956
46	Non Residential Energy Efficient Process Equipment Products		2,580	5,059	5,103	2,462	15,203
47	Non Residential Smart Saver Performance Incentive		4,071	25,079	25,437	21,190	75,777
48	Small Business Energy Saver		463,185	923,404	939,978	453,536	2,780,103
49	Smart Energy in Offices		19,846	1,795	-	-	21,641
50	EnergyWise for Business		33,590	59,750	60,908	25,394	179,643
51	Business Energy Report		-	-	-	-	-
52	Total Lost Revenues		\$ 2,570,707	\$ 4,630,686	\$ 4,710,416	\$ 2,036,447	\$ 13,948,256
53	Found Non-Residential Revenue		-	-	-	-	-
54	Net Lost Residential Revenue		2,570,707	4,630,686	4,710,416	2,036,447	13,948,256

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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South Carolina Lost Revenues Vintage Year 2014-2020

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Year 2019		2017	2018	2019 (1/2 year) ^(a)	2020	2021	Total
Residential							
55	Energy Efficiency Education Program for Schools			\$ 44,709	\$ 99,434	\$ 99,434	\$ 243,578
56	Energy Efficient Appliances and Devices			1,773,596	3,343,188	3,343,188	8,459,971
57	Residential – Smart Saver Energy Efficiency Program			42,742	87,466	87,466	217,674
58	Income Qualified Energy Efficiency and Weatherization Assistance			105,560	177,802	177,802	461,165
59	Multi-Family Energy Efficiency			146,961	265,959	265,959	678,878
60	My Home Energy Report			4,388,268	-	-	4,388,268
61	Energy Assessments			86,798	160,691	160,691	408,180
62	Total Lost Revenues			\$ 6,588,634	\$ 4,134,540	\$ 4,134,540	\$ 14,857,715
63	Found Residential Revenue			-	-	-	-
64	Net Lost Residential Revenue			\$ 6,588,634	\$ 4,134,540	\$ 4,134,540	\$ 14,857,715
Non-Residential			2018	2019 (1/2 year) ^(a)	2020	2021	Total
65	Non Residential Smart Saver Custom Technical Assessments			\$ -	\$ -	\$ -	\$ -
66	Non Residential Smart Saver Custom			126,171	242,538	242,538	611,246
67	Non Residential Smart Saver Energy Efficient Food Service Products			8,303	17,364	17,364	43,032
68	Non Residential Smart Saver Energy Efficient HVAC Products			61,647	149,638	149,638	360,923
69	Non Residential Smart Saver Energy Efficient Lighting Products			1,481,758	2,413,453	2,413,453	6,308,664
70	Non Residential Energy Efficient Pumps and Drives Products			1,628	7,493	7,493	16,614
71	Non Residential Energy Efficient ITEE			65	112	112	289
72	Non Residential Energy Efficient Process Equipment Products			1,793	4,320	4,320	10,433
73	Non Residential Smart Saver Performance Incentive			-	-	-	-
74	Small Business Energy Saver			420,883	732,462	732,462	1,885,808
75	EnergyWise for Business			33,354	59,019	59,019	151,393
76	Total Lost Revenues			\$ 2,135,602	\$ 3,626,400	\$ 3,626,400	\$ 9,388,402
77	Found Non-Residential Revenue			-	-	-	-
78	Net Lost Residential Revenue			2,135,602	3,626,400	3,626,400	9,388,402

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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NO CHANGE

Year 2020		2017	2018	2019	2020 (1/2 year) ^(a)	2021	Total
Residential							
79	Energy Efficiency Education Program for Schools				56,950	124,535	181,485
80	Energy Efficient Appliances and Devices				426,394	881,866	1,308,260
81	Residential – Smart Saver Energy Efficiency Program				93,938	195,051	288,989
82	Income Qualified Energy Efficiency and Weatherization Assistance				44,693	163,166	207,860
83	Multi-Family Energy Efficiency				207,409	430,663	638,072
84	My Home Energy Report				4,942,558	-	4,942,558
85	Energy Assessments				67,088	180,372	247,460
86	Total Lost Revenues				\$ 5,839,031	\$ 1,975,653	\$ 7,814,684
87	Found Residential Revenue				-	-	-
88	Net Lost Residential Revenue				5,839,031	1,975,653	7,814,684
Non-Residential							
		2017	2018	2019	2020 (1/2 year) ^(a)	2021	Total
89	Non Residential Smart Saver Custom Technical Assessments				\$ 65,403	\$ 132,162	\$ 197,565
90	Non Residential Smart Saver Custom				495,115	1,037,473	1,532,588
91	Non Residential Smart Saver Energy Efficient Food Service Products				20,065	34,065	54,130
92	Non Residential Smart Saver Energy Efficient HVAC Products				12,874	13,495	26,369
93	Non Residential Smart Saver Energy Efficient Lighting Products				648,966	1,033,400	1,682,366
94	Non Residential Energy Efficient Pumps and Drives Products				22,428	36,390	58,818
95	Non Residential Energy Efficient ITEE				1,450	2,499	3,949
96	Non Residential Energy Efficient Process Equipment Products				2,621	4,311	6,932
97	Non Residential Smart Saver Performance Incentive				165,852	329,570	495,422
98	Small Business Energy Saver				392,216	653,792	1,046,008
99	EnergyWise for Business				21,986	37,656	59,642
100	Total Lost Revenues				\$ 1,848,976	\$ 3,314,813	\$ 5,163,790
101	Found Non-Residential Revenue				-	-	-
102	Net Lost Residential Revenue				1,848,976	3,314,813	5,163,790

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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Year 2021		2017	2018	2019	2020	2021 (1/2 year)	Total
Residential							
103	Appliance Recycling					\$ -	\$ -
104	Energy Efficiency Education Program for Schools					86,354	86,354
105	Energy Efficient Appliances and Devices					556,195	556,195
106	Residential – Smart Saver Energy Efficiency Program					63,100	63,100
107	Income Qualified Energy Efficiency and Weatherization Assistance					108,246	108,246
108	Multi-Family Energy Efficiency					282,743	282,743
109	My Home Energy Report					7,745,723	7,745,723
110	Energy Assessments					155,178	155,178
111	Total Lost Revenues					\$ 8,997,541	\$ 8,997,541
112	Found Residential Revenue						-
113	Net Lost Residential Revenue					8,997,541	8,997,541
Non-Residential							
114	Non Residential Smart Saver Custom Technical Assessments					\$ 49,041	\$ 49,041
115	Non Residential Smart Saver Custom					444,941	444,941
116	Energy Management Information Systems					-	-
116	Non Residential Smart Saver Energy Efficient Food Service Products					4,344	4,344
117	Non Residential Smart Saver Energy Efficient HVAC Products					19,951	19,951
118	Non Residential Smart Saver Energy Efficient Lighting Products					864,457	864,457
119	Non Residential Energy Efficient Pumps and Drives Products					13,192	13,192
120	Non Residential Energy Efficient ITEE					1,336	1,336
121	Non Residential Energy Efficient Process Equipment Products					11,348	11,348
122	Non Residential Smart Saver Performance Incentive					120,382	120,382
123	Small Business Energy Saver					428,466	428,466
124	Smart Energy in Offices					-	-
124	EnergyWise for Business					25,362	25,362
124	Business Energy Report						-
125	Total Lost Revenues					1,982,820	\$ 1,982,820
126	Found Non-Residential Revenue						-
127	Net Lost Residential Revenue					1,982,820	\$ 1,982,820

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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	Year 2016	2016	2017	2018	2019	2020	2021 (1/2 year)	Total
Residential								
126 Appliance Recycling		\$ 1,156	\$ 2,445	\$ 2,453	\$ 655			\$ 6,709
127 Energy Efficiency Education Program for Schools		49,651	113,539	113,901	36,728			313,819
128 Energy Efficient Appliances and Devices		912,502	1,984,438	1,990,624	697,361			5,584,926
129 Residential – Smart Saver Energy Efficiency Program		25,732	65,424	65,633	24,203			180,992
130 Income Qualified Energy Efficiency and Weatherization Assistance		30,781	65,434	65,637	22,630			184,481
131 Multi-Family Energy Efficiency		107,545	232,892	233,717	80,177			654,331
132 My Home Energy Report		3,249,461	-	-	-			3,249,461
133 Energy Assessments		80,627	141,718	142,164	41,667			406,177
134 Total Lost Revenues		\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 903,420			\$ 10,580,896
135 Found Residential Revenue		-	-	-	-			-
136 Net Lost Residential Revenue		\$ 4,457,455	\$ 2,605,892	\$ 2,614,130	\$ 903,420			10,580,896
Non-Residential								
		2,016	2017	2018	2019	2020		Total
137 Non Residential Smart Saver Custom Technical Assessments		\$ 12,263	\$ 71,091	\$ 73,627	\$ 30,097			\$ 187,078
138 Non Residential Smart Saver Custom		101,444	182,977	184,357	51,510			520,287
139 Energy Management Information Systems		19,479	92,293	91,851	-			203,623
139 Non Residential Smart Saver Energy Efficient Food Service Products		23,846	40,687	41,424	37,291			143,248
140 Non Residential Smart Saver Energy Efficient HVAC Products		804,138	1,793,295	1,779,130	10,268			4,386,830
141 Non Residential Smart Saver Energy Efficient Lighting Products		9,796	23,804	24,007	629,799			687,406
142 Non Residential Energy Efficient Pumps and Drives Products		34	79	78	6,855			7,047
143 Non Residential Energy Efficient ITEE		1,882	2,731	2,725	26			7,364
144 Non Residential Energy Efficient Process Equipment Products		-	-	-	859			859
145 Non Residential Smart Saver Performance Incentive								-
146 Small Business Energy Saver		559,122	1,134,713	1,129,191	356,722			3,179,748
147 Smart Energy in Offices		70,822	24,541	-	-			95,363
147 EnergyWise for Business		-	-	-	-			-
147 Business Energy Report		5,895	11,102	10,998	3,517			31,513
148 Total Lost Revenues		\$ 1,608,722	\$ 3,377,313	\$ 3,337,388	\$ 1,126,944			\$ 9,450,367
149 Found Non-Residential Revenue		2,631	2,404	2,404	497			7,936
150 Net Lost Residential Revenue		1,606,091	3,374,909	3,334,984	1,126,447			\$ 9,442,431

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Amended Rider 12 Exhibit 2

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For the Period January 1, 2016 - December 31, 2020
Docket Number 2020-xx-E
DSM/EE Actual Revenues Collected from Years 2016 - 2019 (By Vintage)
and Estimated 2020 Collections from Rider 11 (By Vintage)

			Actual 2016	Actual 2017 ¹	Actual 2018	Actual 2019	Actuals	Estimated 2020	Total Revenue Estimated Collected through 2020
Line	New Mechanism		Rider 7	Rider 8	Rider 9	Rider 10	Total	Rider 11	
Residential									
1	EE and DSM	2016	18,936,713	4,209,049	8,640,262	1,927,261	33,713,285	(433,731)	33,279,554
2	EE and DSM	2017		22,373,744	1,734,312	14,367,644	38,475,700	393,147	38,868,847
3	EE and DSM	2018			31,444,916	2,428,773	33,873,689	8,768,654	42,642,343
4	EE and DSM	2019				29,763,833	29,763,833	2,189,992	31,953,825
5	EE and DSM	2020						25,078,737	25,078,737
6	Interest	2016			729,500	237,555	967,055	(29,747)	
7	Interest	2017				934,494	934,494	709,425	1,643,919
8	Interest	2018						534,159	534,159
Non-Residential									
9	EE	2016	14,145,231	5,235,479	11,569,790	2,384,589	33,335,090	769,971	34,105,061
10	EE	2017		17,081,335	4,428,890	27,468,053	48,978,277	2,177,467	51,155,744
11	EE	2018			20,670,345	5,661,432	26,331,777	5,760,257	32,092,034
12	EE	2019				22,002,027	22,002,027	5,687,530	27,689,557
13	EE	2020						20,142,538	20,142,538
14	EE Interest	2016			1,152,892	329,720	1,482,612	96,730	1,579,341
15	EE Interest	2017				1,941,096	1,941,096	889,970	2,831,066
16	EE Interest	2018						246,016	246,016
17	DSM	2016	5,730,973	687,354	37,334	28,751	6,484,412	(6,072)	6,478,340
18	DSM	2017		6,368,636	137,133	584,748	7,090,518	(137,134)	6,953,384
19	DSM	2018			6,299,502	413,784	6,713,287	1,001,064	7,714,351
20	DSM	2019				7,057,618	7,057,618	-	7,057,618
21	DSM	2020						9,092,443	9,092,443
22	DSM Interst	2016			54,403	2,981	57,384	438	57,822
23	DSM Interest	2017				66,055	66,055	7,682	73,737
24	DSM Interest	2018						126,506	126,506
25	Total Revenue Collected			51,746,548	78,259,016	115,673,153	245,678,718	83,499,772	348,117,386

¹ Actual 2017 and 2018 Revenue Source: Rider 11 Exhibit 2 Docket 2018-89-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 11.

² Estimated 2020 Revenue Source: Rider 11 Exhibit A.

In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2020-XX-E
Forecasted kWh Sales for Years 2016-2021

Fall 2019 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2021 Sales	Factor to Exclude Greenwood Sales from Forecast	2019 MWh Usage	Percent to Total
1 Residential	Company Records	6,636,315,928	Total SC Residential Sales	6,769,118	
2 Factor to exclude Greenwood	see calc. to right	99.33201%	Greenwood Residential Sales	45,217	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,591,986,001	SC Residential Sales excluding Greenwood	6,723,901	99.33201%
4 Non-Residential (excluding lighting)	Company Records	14,899,365,182	Total SC Non-Residential Sales	14,697,398	
5 Factor to exclude Greenwood	see calc. to right	99.97316%	Greenwood Non-Residential Sales	3,944	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	14,895,366,192	SC Non-Residential Sales excluding Greenwood	14,693,454	99.97316%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	<u>21,487,352,194</u>	Total SC Retail Sales	21,466,517	
			Greenwood Retail Sales	49,162	
			SC Retail Sales excluding Greenwood	21,417,355	

Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2016			
8 EE	14,895,366,192	10,267,753,555	4,627,612,637
9 DSM	14,895,366,192	9,447,131,796	5,448,234,396
Year 2017			
8 EE	14,895,366,192	10,330,674,738	4,564,691,454
9 DSM	14,895,366,192	9,447,131,796	5,448,234,396
Year 2018			
10 EE	14,895,366,192	10,389,584,010	4,505,782,182
11 DSM	14,895,366,192	9,400,217,630	5,495,148,562
Year 2019			
12 EE	14,895,366,192	10,446,567,023	4,448,799,169
13 DSM	14,895,366,192	9,402,889,130	5,492,477,062
Year 2020			
14 EE	14,895,366,192	10,490,870,196	4,404,495,996
15 DSM	14,895,366,192	9,402,889,130	5,492,477,062
Year 2021			
16 EE	14,895,366,192	10,490,870,196	4,404,495,996
17 DSM	14,895,366,192	9,402,889,130	5,492,477,062

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2020-xx-E
Forecasted kWh Net Metering Impacts for Year 2021

Summary:

SC Residential customers participating in the net Metering program are being charged a solar access fee. This fee includes a component of EE recovery.
Non-residential customers participating in the net Metering program are assumed to be opted out of the EE programs and their fee does not include an EE component.

Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider.
Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirement requested on Exhibit A.

	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Projected Installed Nameplate Capacity	120,093	120,093	120,093	120,093	120,093	120,093	120,093	120,093	120,093	120,093	120,093	120,093
Current Solar Access Fee Rate (\$/kW)	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228	0.8228
Amount collected per month	98,808	98,808	98,808	98,808	98,808	98,808	98,808	98,808	98,808	98,808	98,808	98,808
	<u>1,185,693</u>											

Duke Energy Carolinas
For the Period January 2017 - December 31, 2019
Docket Number 2019-89-E
Residential Interest Calculation - Year 2017 -2018

Residential

Year 2017		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 30,462,648	\$ 3,977,873	2,335,588	699,427	\$ 37,475,536
2 Revenue Collections	Rider 12, Exhibit 2	22,373,744	1,734,312	14,367,644	393,147	38,868,847
3 (Over) / Under Collection	Line 1 - Line 2	8,088,905	2,243,561	(12,032,057)	306,280	(1,393,311)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	8,088,905	10,332,466	(1,699,591)	(1,393,311)	
5 Average Balance (Over)/Under Collection		4,044,452	9,210,685	4,316,438	(1,546,451)	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005650	0.005556	
7 Number of Months		<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 280,620	\$ 639,074	\$ 292,657	\$ (103,105)	\$ 1,109,246
9 Interest Paid (Returned) in Prior Rider	R11 Exh 2 Line 6					1,636,602
10 Interest Due - Rider 12	Line 8 - Line 9					\$ (527,356)
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					<u>\$ (530,000)</u>
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed collected on Rider 12 Exhibit 2.

Year 2018		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>Total</u>
1 Revenue Requirement	Year 2018 Exhibit 1		\$ 36,554,574	4,799,869	3,658,997	\$ 45,013,440
2 Revenue Collections	Rider 12, Exhibit 2		31,444,916	2,428,773	8,768,654	42,642,343
3 (Over) / Under Collection	Line 1 - Line 2		5,109,658	2,371,096	(5,109,657)	2,371,097
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4		5,109,658	7,480,754	2,371,097	
5 Average Balance (Over)/Under Collection			2,554,829	6,295,206	4,925,926	
6 Monthly rate (WACC)	Line 13/12		0.005782	0.005650	0.005556	
7 Number of Months			<u>12</u>	<u>12</u>	<u>12</u>	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7		\$ 177,264	\$ 426,818	\$ 328,409	\$ 932,491
9 Interest Paid (Returned) in Prior Rider	N/A					531,793
10 Interest Due - Rider 12	Line 8 - Line 9					\$ 400,699
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					<u>\$ 402,708</u>
13 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 12 Exhibit 2.

Duke Energy Carolinas
For the Period January 2019 - December 31, 2019
Docket Number 2019-89-E
Residential Interest Calculation - Year 2019

Residential

Year 2019		<u>2019</u>	<u>2020</u>	<u>Total</u>
1 Revenue Requirement	Year 2017 Exhibit 1	36,585,529	2,189,992	\$ 38,775,521
2 Revenue Collections	Rider 12, Exhibit 2	29,763,833	2,189,992	Note C 31,953,825
3 (Over) / Under Collection	Line 1 - Line 2	6,821,697	-	-
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	6,821,697	6,821,697	
5 Average Balance (Over)/Under Collection		3,410,848	6,821,697	
6 Monthly rate (WACC)	Line 13/12	0.00565004	0.005555791	
7 Number of Months		12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 231,257	\$ 454,799	\$ 686,056
9 Interest Paid (Returned) in Prior Rider	N/A			-
10 Interest Due - Rider 12	Line 8 - Line 9			\$ 686,056
11 Gross Receipts Tax				1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11			\$ 689,496
13 Weighted average cost of capital (WACC)		6.7800% NOTE A	6.6669% NOTE B	

NOTE A: 5 months Docket 2013-59-E and 7 months Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 12 Exhibit 2.

Duke Energy Carolinas
For the Period January 2017 - December 31, 2019
Docket Number 2019-89-E
Non-Residential Interest Calculation Year 2017

Non-Residential

Year 2017 - Energy Efficiency

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2017 Exhibit 1	\$ 33,701,645	\$ 11,296,323	\$ 4,448,507	\$ 1,151,434		\$ 50,597,909
2 Revenue Collections	Rider 12, Exhibit 2	17,081,335	4,428,890	27,468,053	2,177,467	NOTE D	51,155,744
3 (Over) / Under Collection	Line 1 - Line 2	16,620,310	6,867,434	(23,019,545)	(1,026,033)		(557,835)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	16,620,310	23,487,744	468,198	(557,835)		
5 Average Balance (Over)/Under Collection		8,310,155	20,054,027	11,977,971	(44,818)		
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%		
7 Number of Months		12	12	12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 576,592	\$ 1,391,429	\$ 831,080	\$ (3,110)		\$ 2,799,100
9 Interest Paid (Returned) in prior rider	Rider 12, Exhibit 2, Line 15						2,818,452
10 Interest Due - Rider 12	Line 8 - Line 9						\$ (19,352)
11 Gross Receipts Tax							1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11						\$ (19,449)
13 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.7800%	6.6669%		
		NOTE A	NOTE A	NOTE B	NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE B: Estimated Year D lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

Year 2017 - DSM

		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484					\$ 7,000,484
15 Revenue Collections	Rider 10, Exhibit 2	6,368,636	137,133	584,748	(137,134)		6,953,384
16 (Over) / Under Collection	Line 14 - Line 15	631,848	(137,133)	(584,748)	137,134		47,100
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	494,715	(90,034)	47,100		
18 Average Balance (Over)/Under Collection		315,924	563,281	202,340	(21,467)		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%		
20 Number of Months		12	12	12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920	\$ 39,083	\$ 14,039	\$ (1,489)		73,553
22 Interest Paid (Returned) in Prior Rider	Rider 12, Exhibit 2, Line 23						73,408
23 Interest Due - Rider 12	Line 21 - Line 22						\$ 145
24 Gross Receipts Tax							1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24						\$ 145
26 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.7800%	6.6669%		
		NOTE A	NOTE A	NOTE B	NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

Duke Energy Carolinas
For the Period January 2018 - December 31, 2019
Docket Number 2020-xx-E
Non-Residential Interest Calculation Year 2018

Non-Residential

Year 2018 - Energy Efficiency

		<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2018 Exhibit 1	\$ 23,432,115	\$ 5,121,770	\$ 4,251,946		\$ 32,805,830
2 Revenue Collections	Rider 12, Exhibit 2	20,670,345	5,661,432	5,760,257	NOTE D	32,092,034
3 (Over) / Under Collection	Line 1 - Line 2	2,761,770	(539,662)	(1,508,311)		713,796
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	2,761,770	2,222,108	713,796		
5 Average Balance (Over)/Under Collection		1,380,885	2,491,939	1,467,952		
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5650%	0.5650%		
7 Number of Months		12	12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 95,811	\$ 168,953	\$ 99,527		\$ 364,292
9 Interest Paid (Returned) in prior rider	Rider 12, Exhibit 2, Line 16					244,926
10 Interest Due - Rider 12	Line 8 - Line 9					\$ 119,366
11 Gross Receipts Tax						1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ 119,965
13 Weighted average cost of capital (WACC)		6.9384%	6.7800%	6.6669%		
		NOTE A	NOTE B	NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated Year 3 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

Year 2018 - DSM

		<u>2018</u>	<u>2019</u>	<u>2020</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2018, Exhibit 1	\$ 7,614,169	\$ (4,238)			\$ 7,609,931
15 Revenue Collections	Rider 11, Exhibit 2	6,299,502	413,784	1,001,064	NOTE D	7,714,351
16 (Over) / Under Collection	Line 14 - Line 15	1,314,667	(418,023)	(1,001,064)		(104,420)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	1,314,667	896,644	(104,420)		
18 Average Balance (Over)/Under Collection		657,333	1,105,656	396,112		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5650%	0.5650%		
20 Number of Months		12	12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 45,608	\$ 74,963	\$ 26,856		147,428
22 Interest Paid (Returned) in Prior Rider	Rider 12, Exhibit 2, Line 24					125,946
23 Interest Due - Rider 12	Line 21 - Line 22					\$ 21,483
24 Gross Receipts Tax						1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24					\$ 21,590
26 Weighted average cost of capital (WACC)		6.9384%	6.7800%	6.6669%		
		NOTE A	NOTE B	NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E

NOTE D: Estimated 2019 revenue included at requested amount on Rider 12 Exhibit 2.

Duke Energy Carolinas
For the Period January 2019 - December 31, 2019
Docket Number 2020-xx-E
Non-Residential Interest Calculation Year 2019

Non-Residential

Year 2019 - Energy Efficiency		<u>2019</u>	<u>2020</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2019 Exhibit 1	\$ 16,439,699	\$ 5,687,530		\$ 22,127,229
2 Revenue Collections	Rider 12, Exhibit 2	22,002,027	5,687,530	NOTE C	27,689,557
3 (Over) / Under Collection	Line 1 - Line 2	(5,562,328)	-		(5,562,328)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	(5,562,328)	(5,562,328)		
5 Average Balance (Over)/Under Collection		(2,781,164)	(5,562,328)		
6 Monthly rate (WACC)	Line 13/12	0.5650%	0.5650%		
7 Number of Months		12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ (188,563)	\$ (377,126)		\$ (565,689)
9 Interest Paid (Returned) in prior rider	N/A				-
10 Interest Due - Rider 12	Line 8 - Line 9				\$ (565,689)
11 Gross Receipts Tax					1.005014
12 Interest Due - including GRT - Rider 12	Line 10 * Line 11				\$ (568,525)
13 Weighted average cost of capital (WACC)		6.7800%	6.6669%		
		NOTE A	NOTE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

Year 2019 - DSM		<u>2019</u>	<u>2020</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2019, Exhibit 1	\$ 7,218,568			\$ 7,218,568
15 Revenue Collections	Rider 12, Exhibit 2	7,057,618		NOTE C	7,057,618
16 (Over) / Under Collection	Line 14 - Line 15	160,950	-		160,950
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	160,950	160,950		
18 Average Balance (Over)/Under Collection		80,475	160,950		
19 Monthly rate (WACC)	Line 26/12	0.5650%	0.5650%		
20 Number of Months		12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 5,456	\$ 10,912		16,369
22 Interest Paid (Returned) in Prior Rider	N/A				-
23 Interest Due - Rider 12	Line 21 - Line 22				\$ 16,369
24 Gross Receipts Tax					1.005014
25 Interest Due - including GRT - Rider 12	Line 23 * Line 24				\$ 16,451
26 Weighted average cost of capital (WACC)		6.7800%	6.6669%		
		NOTE A	NOTE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E

Amended Rider 11 Exhibit 4, Page 6 of 6

Duke Energy Carolinas
For the Period January 2015 - December 31, 2019
Docket Number 2019-89-E
Interest Calculation Year 2016

Residential

Year 2016		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	Total
1 Revenue Requirement before interest	Year 2016 Exhibit 1	26,619,929	2,541,280	2,638,607	903,421		\$ 32,703,236
2 Revenue Collections	Rider 11, Exhibit 2	18,936,713	4,209,049	8,640,262	1,927,261	(433,731) NOTE B	33,279,554
3 (Over) / Under Collection	Line 1 - Line 2	7,683,215	(1,667,769)	(6,001,654)	(447,523)	433,731	0
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	7,683,215	6,015,447	13,792	(433,731)	(6,896)	
5 Average Balance (Over)/Under Collection		3,841,608	6,849,331	3,014,619	(209,969)	(220,313)	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	0.005650	0.005556	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	266,546	475,234	209,166	(14,569) \$	(14,688)	\$ 921,690
9 Interest Paid (Returned) in prior rider	N/A						936,378
10 Interest Due - Rider 10	Line 8 - Line 9						\$ (14,688)
11 Gross Receipts Tax							1,005,014
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ (14,762)
13 Weighted average cost of capital (WACC)		0.069384	0.069384	0.069384	6.7800%	6.6669%	
		NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2019 collection on Rider 11 Exhibit 2.

Non-Residential

Year 2016 - Energy Efficiency		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	Total
1 Revenue Requirement before interest	Year 2016 Exhibit 1	\$ 25,816,275	\$ 3,007,387	\$ 3,362,782	\$ 1,126,945		\$ 33,313,389
2 Revenue Collections	Rider 12, Exhibit 2	14,145,231	5,235,479	11,569,790	2,384,589	769,971	34,105,061
3 (Over) / Under Collection	Line 1 - Line 2	11,671,044	(2,228,092)	(8,207,007)	(1,257,645)	(769,971)	(791,672)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	11,671,044	9,442,952	1,235,944	(21,701)	(791,672)	
5 Average Balance (Over)/Under Collection		5,835,522	10,556,998	5,339,448	607,122	(406,686)	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 404,892	\$ 732,487	\$ 370,472	\$ 42,125	\$ (28,218)	\$ 1,521,758
9 Interest Paid (Returned) in prior rider	N/A						1,481,139
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 40,619
11 Gross Receipts Tax							1,005,014
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 40,823
13 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.9384%	6.7800%	6.6669%	
		NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2019 collection on Rider 11 Exhibit 2.

Year 2016 - DSM		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	Total
14 Revenue Requirement before interest	Year 2016, Exhibit 1	\$ 6,480,381	\$ -				\$ 6,480,381
15 Revenue Collections	Rider 11, Exhibit 2	5,730,973	687,354	37,334	28,751	(6,072)	6,478,340
16 (Over) / Under Collection	Line 14 - Line 15	749,408	(687,354)	(37,334)	(28,751)	6,072	2,041
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	749,408	62,054	24,720	(4,032)	2,041	
18 Average Balance (Over)/Under Collection		374,704	405,731	43,387	10,344	(995)	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	13	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 25,998	\$ 28,151	\$ 3,010	\$ 718	\$ (75)	\$ 57,803
22 Interest Paid (Returned) in Prior Rider	N/A						57,371
23 Interest Due - Rider 10	Line 21 - Line 22						\$ 432
24 Gross Receipts Tax							1,005,014
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24						\$ 434
26 Weighted average cost of capital (WACC)		6.9384%	6.9384%	6.9384%	6.7800%	6.6669%	
		NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2018 revenue included at revised requested amount shown on Rider 10 Exhibit 2, page 1 of 3.